

C L A I M S

1. A communication system comprising a radio unit
5 (2), several terminal equipments (1) and a local
administration server (5), wherein the radio unit
comprises a first communication interface with the
terminal equipments (23), a second
10 radiocommunication interface (20) with a cellular
network (4), a module for identifying a
subscription to the cellular network (40) and
means for transferring multiple user streams
between the cellular network and the respective
15 terminal equipments connected to the first
interface within the framework of the subscription
identified by said module, and wherein the local
administration server comprises means of
communication with the terminal equipments,
20 independent of the cellular network, to supervise
the interchanges over the first communication
interface.
2. The system as claimed in claim 1, wherein a
communication between the local administration
25 server (5) and a terminal equipment (1) is made
via the radio unit (2).
3. The system as claimed in claim 1 or 2, wherein
said first communication interface (23) is a radio
30 interface.
4. The system as claimed in any of the preceding
claims, wherein at least certain of said multiple
35 user streams between the cellular network (4) and
the respective terminal equipments (1) are
simultaneous.
5. The system as claimed in any of the preceding
claims, wherein at least certain of said multiple

~~— user streams—between the cellular network (4) and the respective terminal equipments (1) are handled in packet mode.~~

- 5 6. The system as claimed in any of the preceding claims, wherein at least certain of said multiple user streams between the cellular network (4) and the respective terminal equipments (1) are handled in circuit mode.
- 10 7. The system as claimed in any of the preceding claims, wherein the radio unit (2) or the terminal equipments (1) comprise means (11) of measuring an activity relating to the interchanges over the
15 first communication interface (23).
- 20 8. The system as claimed in claim 7, wherein the means of communication between the local administration server (5) and the terminal equipments (1) comprise means of providing a
25 billing based on said activity measurement relating to the interchanges over the first communication interface.
- 30 9. The system as claimed in claim 8, wherein the terminal equipments (1) comprise means (12) of reading a payment means, information relating to the reading of the payment means being transmitted to the local administration server (5), and
35 wherein said billing takes into account said information relating to the reading of the payment means.
10. The system as claimed in any of the preceding claims, wherein the means of communication between the local administration server (5) and the terminal equipments (1) comprise means of authenticating said terminal equipments.

11. The system as claimed in any of the preceding
claims, wherein the means of communication between
the local administration server (5) and the
terminal equipments (1) comprise means of
5 activating an encryption on said first
communication interface.
12. The system as claimed in any of the preceding
claims, wherein the radio unit (2) comprises means
10 (21) of controlling said multiple user streams
between the cellular network (4) and the
respective terminal equipments (1) connected to
the first interface (23).
13. The system as claimed in claim 12, wherein said
means (21) of controlling the multiple user
streams comprise at least one of the following
elements: means of scheduling the setting up of
said streams, means of managing priorities between
15 the streams, means of managing queuing for setting
up said streams and means of managing service
quality.
14. A supervision method in a communication system
25 comprising a radio unit (2), several terminal
equipments (1) and a local administration server
(5), the radio unit comprising a first
communication interface (23) with the terminal
equipments, a second radiocommunication interface
30 (20) with a cellular network (4), a module for
identifying a subscription to the cellular network
(40) and means for transferring multiple user
streams between the cellular network and the
respective terminal equipments connected to the
35 first interface within the framework of the
subscription identified by said module, wherein
the local administration server communicates with
the terminal equipments, independently of the

cellular network, to supervise the interchanges over the first communication interface.

- 5 15. The method as claimed in claim 14, wherein the communication between the local administration server (5) and a terminal equipment (1) is made via the radio unit (2).
- 10 16. The method as claimed in claim 14 or 15, wherein said first communication interface (23) is a radio interface.
- 15 17. The method as claimed in any of claims 14 to 16, wherein at least certain of said multiple user streams between the cellular network (4) and the respective terminal equipments (1) are simultaneous.
- 20 18. The method as claimed in any of claims 14 to 17, wherein at least certain of said multiple user streams between the cellular network (4) and the respective terminal equipments (1) are made in packet mode.
- 25 19. The method as claimed in any of claims 14 to 18, wherein at least certain of said multiple user streams between the cellular network (4) and the respective terminal equipments (1) are made in circuit mode.
- 30 20. The method as claimed in any of claims 14 to 19, wherein a measurement (11) of an activity relating to the interchanges over the first communication interface (23) is made on the radio unit (2) or in
35 the terminal equipments (1).
21. The method as claimed in claim 20, wherein the communication between the local administration server (5) and the terminal equipments (1)

includes the production of a bill based on said measurement of activity relating to the interchanges over the first communication interface.

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22. The method as claimed in claim 21, wherein the terminal equipments (1) include means (12) of reading a payment means, information relating to the reading of the payment means being transmitted to the local administration server (5), and wherein said billing takes into account said information relating to the reading of the payment means.

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23. The method as claimed in any of claims 14 to 22, wherein the communication between the local administration server (5) and the terminal equipments (1) includes an authentication of said terminal equipments.

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24. The method as claimed in any of claims 14 to 23, wherein the communication between the local administration server (5) and the terminal equipments (1) includes activation of an encryption on said first communication interface.

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25. The method as claimed in any of claims 14 to 24, wherein said multiple user streams between the cellular network (4) and the respective terminal equipments (1) connected to the first interface (23) are controlled (21) on the radio unit (2).

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26. The method as claimed in claim 25, wherein said control (21) of the multiple user streams includes at least one of the following elements: scheduling of the setting up of said streams, management of priorities between the streams, a queuing mechanism for setting up said streams and service quality management.

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